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FORMERLY WILLOW RUN LABORATORIES, THE UNIVERSITY OF MICHIGAN

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(E74-10239) STUDY OF ATMOSPHERIC EFFECTS N74-15043
IN SKYLAB DATA Quarterly Progress
Report Sep. - Nov. 1973 (Environmental
Research Inst. of Michigan) 3 p HC
\$3.00 CSCL 04A G3/13 00239 Unclas

Study of Atmospheric Effects in SKYLAB Data
Quarterly Progress Report, November 1973

EREP Investigation 410M
NASA Contract NAS9-13272

Prepared by

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INFRARED AND OPTICS DIVISION
TECHNOLOGY APPLICATIONS

22 January 1974
101700-11-L

National Aeronautics and Space Administration
Johnson Space Center
Principal Investigator Management Office
Mail Code TF6
Houston, Texas 77058

Attention: Mr. Timothy White

Contract: NAS9-13272

Subject: Third Quarterly Report for Period September 1973 -
November 1973

Dear Sir:

This report covers progress during the third quarter (September - November 1973) of Contract NAS9-13272, "Study of Atmospheric Effects in SKYLAB Data", EREP No. 410M. The work is being conducted in the Infrared and Optics Division of the Environmental Research Institute of Michigan, under the general supervision of Mr. R. R. Legault. The principal investigator is Mr. F. J. Thomson.

PROGRESS

During September, three attempts were made to obtain a second set of coordinated ground and aircraft data in support of SL-3 overpasses. Unacceptable weather conditions in the test site forced the cancellation of all those attempts.

Ground measurements obtained in support of an SL-3 overpass on 5 August 1973 have been reduced and analyzed. Results of the optical radiation parameters measured are presented in Letter Report Number 101700-10-L.



101700-11-L

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Mr. Timothy White

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22 January 1974

Work has begun on transferring ground truth information to photo-mosaic base maps. These maps will form a data base with which to assess the merits of terrain object discriminability achieved with the aircraft and SKYLAB data.

PLANS

As of the end of this quarter, we are awaiting the receipt of screening images for data taken by SL-3 on 5 August. We also look forward to SL-4 in order to acquire our final data set.

TRAVEL

None

Respectfully submitted:

Frederick J. Thomson
Research Engineer

Approved by:

Richard R. Legault
Program Director

FJT/RRL/dlc